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**Munoz et al.**

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(54) **SYSTEM AND METHOD FOR  
TRANSMISSION OF INFORMATION  
PACKETS BETWEEN PROVIDER AND  
CONSUMER PROCESSORS**

5,214,759 A \* 5/1993 Yamaoka et al. .... 395/200.08  
5,329,619 A \* 7/1994 Page et al. .... 395/200.01

\* cited by examiner

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(57) **ABSTRACT**

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An inventive mapped memory interface product and process are provided. The inventive product carries out the steps of transmitting an information packet between a provider and a consumer processor; using the information packet to map a portion in a shared memory to which data will be transferred from a provider processor and from which the data will be extracted via a consumer processor; using the information packet to tell the consumer processor where the data is located; directing the local memory of both the provider processor and consumer processor to the portion mapped in the shared memory; transferring data from the provider processor to the mapped portion in the shared memory; and extracting the data from the mapped portion of the shared memory and transferring it in the local memory of the consumer computer.

(21) Appl. No.: **08/303,809**

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(52) **U.S. Cl.** ..... **709/208; 709/245**

(58) **Field of Search** ..... 345/200; 395/200.08;  
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(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,862,350 A \* 8/1989 Orr et al. .... 395/250

**11 Claims, 3 Drawing Sheets**

